# Inspect Minnesota & Midwest Soil Testing

MPCA Licensed Advanced Designers, Inspectors, & Service Providers

December 14, 2018

Corwin & Katie E. B. Cheng (Buyers) Animal Inn 8633 34<sup>th</sup> St N Lake Elmo, MN 55042

Subject: Septic Systems at 8633 34th St N, Lake Elmo, MN

Dear Corwin & Katie:

I have performed MPCA compliance inspections on the known systems serving this property, have reviewed the history of the systems with the owner, Dawn Larson, and have reviewed the limited records on file at the City of Lake Elmo and Washington County. This property has four buildings with three subsurface treatment systems. The findings are as follows:

1) Building one (suite building) system consists of two pre-cast septic tanks, a pre-cast lift tank, and a seepage bed. In addition, there is a "bull valve" located between the first and second tank that allows the flow to be redirected to a very old system from approximately the 1980's. The valve appears to be currently set to the newer 2009 system. The 1980's system has not had a compliance inspection performed on it and should be permanently disconnected from the 2009 system.

2) We were unable to confirm if building two has a system. If a system exists, it could consist of a tank and drainfield or just a tank. Records indicated that there was a system that was to be abandoned and there is a floor drain located in the building. A camera should be ran down the floor drain to determine if there is a system or not. If a system does exist, there has been no compliance inspection performed on it. If it is determined that there is a system for this building, it would be necessary to complete a compliance inspection on the system.

3) Building three system consists of a pre-cast septic tank and a rock trench drainfield that serves the upper level of the building and a pre-cast septic tank and lift tank that pumps to the upper level septic tank from the lower level of the building. A barrier should be place above the upper tank to prevent snow from being plowed over it. This building is currently under construction.

4) Building four systems consists of four pre-cast septic tanks and a pre-cast lift tank with two pumps. The first pump, pumps to a very old rock trench drainfield installed in the 1980's, which is north of building two. The second pump, pumps to a seepage bed adjacent to the septic tanks. The first drop box on the 1980's drainfield has no soil cover and should have soil placed over the box to prevent freezing. It should be noted that the 2006 system was installed because the original drainfield system had hydraulically failed. No external sign of failure was identified with either system for this building at the time of our inspection

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Please note that there currently is no flow data for these systems, there is a large amount of pet hair being released into these systems, and the sewage appears to be unhealthy due to the current products being discharged into these systems. No warranty can be implied relative to the future performance of these systems. Due to the limited records and the limiting weather condition, there is the possibility that other systems may be present. I would assume any other systems to be non-compliant until inspected. In addition, Washington County may require further testing to be completed to determine if there is high strength waste and may require these systems to have operating permits.

Predicated on my inspection of the known systems, my review of the history of the systems with the owner, and my review of the limited records, it is my opinion that these systems <u>presently meet MPCA minimum</u> compliance inspection requirements.

Inspect Minnesota and Midwest Soil Testing have been hired to perform a compliance inspection of thiese SSTS for compliance with local ordinances pursuant to Minn. Stat. § 115.55 (2013). These compliance inspection covers only the criteria required by Minn. Stat. § 115.55 Subd. 5a (2013) and Minn. R. 7080.1500 (2011). A compliance inspection is an indication of the current compliance status of the system and does not guarantee the performance or longevity of these systems beyond the date of inspection, as it is impossible to determine the future performance of any system. Inspect Minnesota and Midwest Soil Testing disclaim any use of these compliance inspections beyond determining SSTS compliance pursuant to Minn. Stat. § 115.55 Subd. 5a (2013) and Minn. R. 7080.1500 (2011).

Please contact us should you have any questions

Sincerely,

Brian Humpal Atu la

Brian Humpal

Cc Washington County Department of Public Health & Environment

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St. Paul, MN 55155-4194

# **Compliance Inspection Form**

# **Existing Subsurface Sewage Treatment Systems**

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(SSTS)

Doc Type: Compliance and Enforcement

Instructions: Inspection results based on Minnesota Pollution Control Agency (MPCA) For local tracking purposes: requirements and attached forms – additional local requirements may also apply.				
Submit completed form to Local Unit of Government (LUG) and system owner within 15 days				
System Status				
System status on date (mm/dd/yyyy): <u>12/4/2018</u>				
_ · · _	npliant – Notice of Noncompliance rade Requirements on page 3)			
Reason(s) for noncompliance (check all applicable)				
Impact on Public Health (Compliance Component #1) – Imminent threat to	o public health and safety			
Other Compliance Conditions (Compliance Component #3) – Imminent thr	eat to public health and safety			
Tank Integrity (Compliance Component #2) – Failing to protect groundwat	er			
Other Compliance Conditions (Compliance Component #3) – Failing to pro	otect groundwater			
Soil Separation (Compliance Component #4) – Failing to protect groundwa	ater			
Operating permit/monitoring plan requirements (Compliance Component #5) – Noncompliant				

#### **Property Information**

Parcel ID# or Sec/Twp/Range:

Property address:	8633 3	34 <sup>th</sup> St N, Lake Elmo, MN (Building 1 (Suite))	Reason for inspe	ction: Property Transfer
Property owner:	Dawn Larson		Owner's phone:	651-270-8825
or				
Owner's represent	tative:		Representative p	hone:
Local regulatory a	uthority:	Washington County	Regulatory autho	rity phone: <u>651-430-6655</u>
		Two pre-cast septic tanks, a pre-cast lift tank,	and a seepage bed.	There is also a bull valve that allows
Brief system desc	ription:	flow to be directed towards an old rock trench	drainfield (Not inspe	ected).
Comments or reco	ommenda	ations:		

Please reference the attach cover letter. This report is not valid without the cover letter.

## Certification

I hereby certify that all the necessary information has been gathered to determine the compliance status of this system. No determination of future system performance has been nor can be made due to unknown conditions during system construction, possible abuse of the system, inadequate maintenance, or future water usage.

Inspector name: Brian Humpal/Christopher Uebe		Certification number:	C5342/C9852
Business name:	Inspect Minnesota, Midwest Soil Testing	License number:	L2896
Inspector signatur	e: Brian Humpal Afric	Phone number:	651-492-7550
Necessary or	Locally Required Attachments		
🛛 Soil boring lo	gs	Forms per local ordinand	ce
🛛 Other inform	ation (list): <u>Cover Letter, Disclaimer, Lice</u>	ense	
www.pca.state.mn. wq-wwists4-31 • 1		• TTY 651-282-5332 or 800-657-3864	Available in alternative formats     Page 1 of 3

## Property address: 8633 34th St N, Lake Elmo, MN (Building 1 (Suite))

#### 1. Impact on Public Health – Compliance component #1 of 5

Compliance criteria:		Verification method(s):
System discharge sewage to the ground surface.	🗌 Yes 🛛 No	Searched for surface outlet Searched for seeping in yard/backup in home
System discharge sewage to drain tile or surface waters.	🗌 Yes 🖾 No	Excessive ponding in soil system/D-boxes
System cause sewage backup into dwelling or establishment.	🗌 Yes 🛛 No	<ul> <li>Black soil" above soil dispersal system</li> <li>System requires "emergency" pumping</li> <li>Performed dye test</li> </ul>
Any "yes" answer above indicates the system is an Imminent Threat to Public Health and Safety.		<ul> <li>Unable to verify (See Comments/Explanation)</li> <li>Other methods not listed (See Comments/Explanation)</li> </ul>

#### Comments/Explanation:

Please reference the attach cover letter. This report is not valid without the cover letter.

#### 2. Tank Integrity – Compliance component #2 of 5

Compliance criteria:		Verification method(s):
System consists of a seepage pit,	🗌 Yes 🖾 No	Probed tank(s) bottom
cesspool, drywell, or leaching pit.		Examined construction records
Seepage pits meeting 7080.2550 may be		Examined Tank Integrity Form (Attach)
compliant if allowed in local ordinance.		Observed liquid level below operating depth
Sewage tank(s) leak below their designed operating depth.	🗌 Yes 🖾 No	Examined empty (pumped) tanks(s)
If yes, which sewage tank(s) leaks:		Probed outside tank(s) for "black soil"
		Unable to verify (See Comments/Explanation)
Any "yes" answer above indicates the system is Failing to Protect Groundwater.		Other methods not listed (See Comments/Explanation)

Comments/Explanation:

Please reference the attach cover letter. This report is not valid without the cover letter.

#### 3. Other Compliance Conditions – Compliance component #3 of 5

a.	Maintenance hole covers are damaged, cracked, unsecured, or appear to structurally unsound. 🛛 Yes* 🛛 No 🗌 Unknown
b.	Other issues <i>(electrical hazards, etc.)</i> to immediately and adversely impact public health or safety.  Yes* No Unknown <b>System is an imminent threat to public health and safety</b>
	Explain:
C.	System is non-protective of ground water for other conditions as determined by inspector  Yes*  No <b>*System is failing to protect groundwater</b>
	Explain:

Inspector initials/Date: 12/4/2018

#### **4. Soil Separation** – Compliance component #4 of 5

Date of installation: Unknown/2009	Unknown	Verification method(s):	
Shoreland/Wellhead protection/Food Beverage		Soil observation does not expire. Previous soil observations by two independent parties are sufficien	
Compliance criteria:		unless site conditions have been al	
For systems built prior to April 1, 1996, and not located in Shoreland or Wellhead	🗌 Yes 🗌 No	requirements differ.	Attach horing logs)
Protection Area or not serving a food,		Two previous verifications (Atta	
beverage or lodging establishment:		Not applicable (Holding tank(s), n	o drainfield)
Drainfield has at least a two-foot vertical separation distance from periodically saturated soil or bedrock.		<ul> <li>Unable to verify (See Comments,</li> <li>Other (See Comments/Explanation</li> </ul>	
Non-performance systems built April 1,	🛛 Yes 🗌 No	Comments/Explanation:	
1996, or later or for non-performance systems located in Shoreland or Wellhead Protection Areas or serving a food, beverage, or lodging establishment:		Reviewed design and permit record	ls.
Drainfield has a three-foot vertical separation distance from periodically saturated soil or bedrock.*			
"Experimental", "Other", or "Performance" systems built under pre-2008 Rules; Type IV	🗌 Yes 🗌 No	Indicate depths of elevations	1
or V systems built under 2008 Rules (7080. 2350 or 7080.2400 (Advanced Inspector License required)		A. Bottom of distribution media	See Attached Boring Log(s
Drainfield meets the designed vertical		B. Periodically saturated soil/bedrock	
separation distance from periodically saturated soil or bedrock.		C. System separation	
		D. Required compliance separation*	
Any "no" answer above indicates the Failing to Protect Groundwater.	he system is	*May be reduced up to 15 percent i Ordinance.	f allowed by Loca
Operating Permit and Nitrogen B	<b>MP*</b> – Complianc	e component #5 of 5 🛛 🛛 Not app	licable
Is the system operated under an Operating Per	mit? 🗌 Yes	□ No If "yes", A below is required	
Is the system required to employ a Nitrogen BM	IP?	□ No If "yes", B below is required	
BMP=Best Management Practice(s) specifi	ied in the system de	sign	
If the answer to both questions is "no",	this section does	s not need to be completed.	
Compliance criteria			
a. Operating Permit number:			
Have the Operating Permit requirements t	been met?		
b Is the required nitrogen BMP in place and	properly functioning	? TYes TNo	

#### Any "no" answer indicates Noncompliance.

**Upgrade Requirements** (*Minn. Stat.* § 115.55) *An imminent threat to public health and safety* (*ITPHS*) *must be upgraded, replaced, or its use discontinued within ten months of receipt of this notice or within a shorter period if required by local ordinance. If the system is failing to protect ground water, the system must be upgraded, replaced, or its use discontinued within the time required by local ordinance. If an existing system is not failing as defined in law, and has at least two feet of design soil separation, then the system need not be upgraded, replaced, or its use discontinued, notwithstanding any local ordinance that is more strict. This provision does not apply to systems in shoreland areas, Wellhead Protection Areas, or those used in connection with food, beverage, and lodging establishments as defined in law.* 

# Log Of Soil Borings

	tion of Project.	8633 34th St N Lake	Elmo MN	55042 (Building	1 (Suite))
Location of Project: 8633 34th St N, Lake Borings Made By: Inspect Minnesota			Date:	12/4/18	
		Hand/Bucket	Classi	fication System:	USDA
P	Boring Number:	1		Boring Number:	
Surface			Surface		
Elevation o	of Same ground	d surface as seepage	Elevation of	of	
Boring		bed	Boring		
Depth In	Soils F	ncountered	Depth In	Soils Er	countered
Inches			Inches	<u>50115 E1</u>	
0-30 30-49 49-62 62-70	2 10YR 4/2 Silt Loam 10YR 3/4 Silt Loam 2 10YR 4/4 Silt Loam				
70" D	70" Depth To End Of Boring Or Redox			Depth To End Of Bo	oring Or Redox
	Elevation Of Boring Relative To System				Relative To System
-36" D			Depth To Bottom Of Distribution Media		-
	of Separation			Of Separation	
ļ		701		End Of Daving At	
	End Of Boring At:	70"		End Of Boring At:	
	edox Present At:	None	Redox Present At: Standing Water Present At:		
Stanuing V	Vater Present At:	None	Stanung	water Fresent AL:	

Bottom Of Distribution Medium At: 36 Inches

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St. Paul, MN 55155-4194

# **Compliance Inspection Form**

# **Existing Subsurface Sewage Treatment Systems**

(SSTS)

Doc Type: Compliance and Enforcement

<b>Instructions:</b> Inspection results based on Minnesota Pollution Control Agency (MPCA) requirements and attached forms – additional local requirements may also apply.	For local tracking purposes:	
Submit completed form to Local Unit of Government (LUG) and system owner within 15 days		
System Status		
System status on date (mm/dd/yyyy): <u>12/4/2018</u>		
_ · · · _	npliant – Notice of Noncompliance rade Requirements on page 3)	
Reason(s) for noncompliance (check all applicable)		
Impact on Public Health (Compliance Component #1) – Imminent threat to	o public health and safety	
Other Compliance Conditions (Compliance Component #3) – Imminent thr		
Tank Integrity (Compliance Component #2) – Failing to protect groundwat		
Other Compliance Conditions (Compliance Component #3) – Failing to pro	-	
Soil Separation (Compliance Component #4) – Failing to protect groundw		
Operating permit/monitoring plan requirements (Compliance Component	#5) – Noncompliant	

#### **Property Information**

Parcel ID# or Sec/Twp/Range:

Property address:	8633 34 <sup>th</sup> St N, Lake Elmo, MN 55042 (Building 3)	Reason for inspection: Property Transfer
Property owner:	Dawn Larson	Owner's phone: 651-270-8825
or		
Owner's represen	tative:	Representative phone:
Local regulatory a	uthority: Washington County	Regulatory authority phone: 651-430-6655
		field upper level of the building and a pre-cast septic tank
Brief system desc	ription:and lift tank that pumps to the upper level see	otic tank from the lower level of the building.
Comments or reco	ommendations:	

Please reference the attach cover letter. This report is not valid without the cover letter.

## Certification

I hereby certify that all the necessary information has been gathered to determine the compliance status of this system. No determination of future system performance has been nor can be made due to unknown conditions during system construction, possible abuse of the system, inadequate maintenance, or future water usage.

Inspector name: Brian Humpal/Christopher Uebe		Certification number:	C5342/C9852
Business name:	Inspect Minnesota, Midwest Soil Testing	License number:	L2896
Inspector signatur	e: Brian Humpal After the	Phone number:	651-492-7550
Necessary or	Locally Required Attachments		
🛛 Soil boring lo	lgs ⊠ System/As-built drawing □	Forms per local ordinan	се
Other information (list):Cover Letter, Disclaimer, License			
www.pca.state.mn.	us • 651-296-6300 • 800-657-3864 • TTY 651-2	82-5332 or 800-657-3864	• Available in alternative formats
wq-wwists4-31 • 1	/24/12		Page 1 of 3

#### 1. Impact on Public Health – Compliance component #1 of 5

Property address: \_ 8633 34th St N, Lake Elmo, MN 55042 (Building 3)

Compliance criteria:		Verification method(s):
System discharge sewage to the ground surface.	🗌 Yes 🛛 No	Searched for surface outlet Searched for seeping in yard/backup in home
System discharge sewage to drain tile or surface waters.	🗌 Yes 🖾 No	Excessive ponding in soil system/D-boxes
System cause sewage backup into dwelling or establishment.	🗌 Yes 🖾 No	<ul> <li>Black soil" above soil dispersal system</li> <li>System requires "emergency" pumping</li> <li>Performed dye test</li> </ul>
Any "yes" answer above indicate an Imminent Threat to Public Hea		<ul> <li>Directorined dye test</li> <li>Unable to verify (See Comments/Explanation)</li> <li>Other methods not listed (See Comments/Explanation)</li> </ul>

#### Comments/Explanation:

Please reference the attach cover letter. This report is not valid without the cover letter.

#### 2. Tank Integrity – Compliance component #2 of 5

Compliance criteria:		Verification method(s):
System consists of a seepage pit,	🗌 Yes 🖾 No	Probed tank(s) bottom
cesspool, drywell, or leaching pit.		Examined construction records
Seepage pits meeting 7080.2550 may be		Examined Tank Integrity Form (Attach)
compliant if allowed in local ordinance.		Observed liquid level below operating depth
Sewage tank(s) leak below their designed operating depth.	🗌 Yes 🛛 No	Examined empty (pumped) tanks(s)
If yes, which sewage tank(s) leaks:		Probed outside tank(s) for "black soil"
		Unable to verify (See Comments/Explanation)
Any "yes" answer above indic system is Failing to Protect G		Other methods not listed (See Comments/Explanation)

Comments/Explanation:

Please reference the attach cover letter. This report is not valid without the cover letter.

#### 3. Other Compliance Conditions – Compliance component #3 of 5

a.	Maintenance hole covers are damaged, cracked, unsecured, or appear to structurally unsound. 🗌 Yes* 🛛 No 🗌	Unknown
b.	Other issues <i>(electrical hazards, etc.)</i> to immediately and adversely impact public health or safety.  Yes*  No  * System is an imminent threat to public health and safety	Unknown
	Explain:	
C.	System is non-protective of ground water for other conditions as determined by inspector ☐ Yes* ⊠ No *System is failing to protect groundwater	
	Explain:	

#### **4. Soil Separation** – Compliance component #4 of 5

Date of installation: Unknown/2011 Shoreland/Wellhead protection/Food Beverage	_ 🛛 Unkn		Verification method(s):	
Lodging?	🗌 Yes	🖾 No	Soil observation does not expire. Pro observations by two independent pro	
Compliance criteria:			unless site conditions have been al	
For systems built prior to April 1, 1996, and not located in Shoreland or Wellhead Protection Area or not serving a food, beverage or lodging establishment: Drainfield has at least a two-foot vertical	☐ Yes	□ No	<ul> <li>requirements differ.</li> <li>Conducted soil observation(s) (</li> <li>Two previous verifications (Attaining teaching teaching) (</li> <li>Not applicable (Holding teaching), n</li> <li>Unable to verify (See Comments)</li> </ul>	ch boring logs) o drainfield)
separation distance from periodically saturated soil or bedrock.			Other (See Comments/Explanation	(ו
Non-performance systems built April 1, 1996, or later or for non-performance systems located in Shoreland or Wellhead Protection Areas or serving a food, beverage, or lodging establishment:	⊠ Yes	🗌 No	Comments/Explanation: Reviewed design and permit record	ls.
Drainfield has a three-foot vertical separation distance from periodically saturated soil or bedrock.*				
"Experimental", "Other", or "Performance"	🗌 Yes	🗌 No	Indicate depths of elevations	
systems built under pre-2008 Rules; Type IV or V systems built under 2008 Rules (7080. 2350 or 7080.2400 (Advanced Inspector License required)			A. Bottom of distribution media	See Attached Boring Log(s)
Drainfield meets the designed vertical separation distance from periodically			<ul><li>B. Periodically saturated soil/bedrock</li><li>C. System separation</li></ul>	
saturated soil or bedrock.				
saturated soil or bedrock. Any "no" answer above indicates to Failing to Protect Groundwater.	the syste	em is	D. Required compliance separation* *May be reduced up to 15 percent i Ordinance.	f allowed by Loca
Any "no" answer above indicates a Failing to Protect Groundwater. Operating Permit and Nitrogen B	<b>3MP*</b> – C	omplianc	*May be reduced up to 15 percent i Ordinance.	
Any "no" answer above indicates to Failing to Protect Groundwater. Operating Permit and Nitrogen B Is the system operated under an Operating Per	SMP* – C rmit?	complianc	*May be reduced up to 15 percent i Ordinance. ce component #5 of 5	
Any "no" answer above indicates to Failing to Protect Groundwater. Operating Permit and Nitrogen B Is the system operated under an Operating Per Is the system required to employ a Nitrogen BN	SMP* – C rmit? MP?	complianc Yes Yes	<ul> <li>*May be reduced up to 15 percent i Ordinance.</li> <li>ce component #5 of 5 Not app</li> <li>No If "yes", A below is required</li> <li>No If "yes", B below is required</li> </ul>	
Any "no" answer above indicates to Failing to Protect Groundwater. Operating Permit and Nitrogen B Is the system operated under an Operating Per	BMP* – C rmit? MP? fied in the s	complianc Yes Yes system de	<ul> <li>*May be reduced up to 15 percent i Ordinance.</li> <li>ce component #5 of 5 Not app</li> <li>No If "yes", A below is required</li> <li>No If "yes", B below is required</li> </ul>	
Any "no" answer above indicates to Failing to Protect Groundwater. Operating Permit and Nitrogen B Is the system operated under an Operating Per Is the system required to employ a Nitrogen BN BMP=Best Management Practice(s) specie	BMP* – C rmit? MP? fied in the s	complianc Yes Yes system de	<ul> <li>*May be reduced up to 15 percent i Ordinance.</li> <li>ce component #5 of 5 Not app</li> <li>No If "yes", A below is required</li> <li>No If "yes", B below is required</li> </ul>	
Any "no" answer above indicates to Failing to Protect Groundwater. Operating Permit and Nitrogen B Is the system operated under an Operating Per Is the system required to employ a Nitrogen BN BMP=Best Management Practice(s) specia If the answer to both questions is "no", Compliance criteria	BMP* – C rmit? MP? fied in the s	complianc Yes Yes system de tion doe	<ul> <li>*May be reduced up to 15 percent i Ordinance.</li> <li>ce component #5 of 5 Not app</li> <li>No If "yes", A below is required</li> <li>No If "yes", B below is required</li> </ul>	

#### Any "no" answer indicates Noncompliance.

**Upgrade Requirements** (*Minn. Stat.* § 115.55) *An imminent threat to public health and safety* (*ITPHS*) *must be upgraded, replaced, or its use discontinued within ten months of receipt of this notice or within a shorter period if required by local ordinance. If the system is failing to protect ground water, the system must be upgraded, replaced, or its use discontinued within the time required by local ordinance. If an existing system is not failing as defined in law, and has at least two feet of design soil separation, then the system need not be upgraded, replaced, or its use discontinued, notwithstanding any local ordinance that is more strict. This provision does not apply to systems in shoreland areas, Wellhead Protection Areas, or those used in connection with food, beverage, and lodging establishments as defined in law.* 

# Log Of Soil Borings

Locati	Location of Project: 8633 34th St N, Lake Elmo, MN 55042 (Building 3)							
		Inspect Minnesota		Date:	12/4/18			
		Hand/Bucket	Classif	fication System:	USDA			
Bo	pring Number:			, Boring Number:				
Surface Elevation of Boring	Same grou	ind surface as last nfield trench	Surface Elevation of Boring					
Depth In Inches	<u>Soils E</u>	ncountered	Depth In Inches	<u>Soils En</u>	ncountered			
0-23 23-37 37-57 57-70	10YR 2/2 10YR 3 7.5YR 4/4 Sano ≈20% Ro	/2 Silt Loam 2 Sandy Loam /4 Silt Loam dy Loam With Gravel ock Fragments sal At 70"						
70" De	pth To End Of B	oring Or Redox	C	Depth To End Of Bo	oring Or Redox			
Same Ele	evation Of Borin	g Relative To System	E	Elevation Of Boring	Relative To System			
	pth To Bottom ( Separation	Df Distribution Media		Depth To Bottom O Df Separation	f Distribution Media			
En	d Of Boring At:	70"		End Of Boring At:				
	dox Present At:	None		Redox Present At:				
	ater Present At:			Water Present At:				

Bottom Of Distribution Medium At: 36 Inches

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St. Paul, MN 55155-4194

# **Compliance Inspection Form**

## **Existing Subsurface Sewage Treatment Systems**

(SSTS)

Doc Type: Compliance and Enforcement

<b>Instructions:</b> Inspection results based on Minnesota Pollution Control Agency (MPCA) requirements and attached forms – additional local requirements may also apply.	For local tracking purposes:					
Submit completed form to Local Unit of Government (LUG) and system owner within 15 days						
System Status						
System status on date (mm/dd/yyyy): <u>12/4/2018</u>						
Compliant – Certificate of Compliance (Valid for 3 years from report date, unless shorter time frame outlined in Local Ordinance.)						
Reason(s) for noncompliance (check all applicable)						
Impact on Public Health (Compliance Component #1) – Imminent threat to						
Other Compliance Conditions (Compliance Component #3) – Imminent thr						
Tank Integrity (Compliance Component #2) – Failing to protect groundwat						
Other Compliance Conditions (Compliance Component #3) – Failing to pro	-					
Soil Separation (Compliance Component #4) – Failing to protect groundwa						
Operating permit/monitoring plan requirements (Compliance Component #	ξ5) — Noncompliant					

#### **Property Information**

Parcel ID# or Sec/Twp/Range:

Property address:	8633 3	4 <sup>th</sup> St N, Lake Elmo, MN (Building 4 (Main))	Reason for inspection:	Property Transfer
Property owner:	Dawn La	arson	Owner's phone: 6512	708825
or				
Owner's represen	tative:		Representative phone:	
Local regulatory a	uthority:	Washington County	Regulatory authority pho	one: <u>651-430-6655</u>
Brief system desc	ription:	Four pre-cast septic tanks, a pre-cast lift tank	with two pumps, a rock tren	ch drainfield, and a seepage bed.
Comments or reco	ommenda	itions:		

Please reference the attach cover letter. This report is not valid without the cover letter.

## Certification

wq-wwists4-31 • 1/24/12

I hereby certify that all the necessary information has been gathered to determine the compliance status of this system. No determination of future system performance has been nor can be made due to unknown conditions during system construction, possible abuse of the system, inadequate maintenance, or future water usage.

Inspector name: Brian Humpal/Christopher Uebe					Certification number:	С	5342/C9852	
Business name: _Inspect Minnesota, Midwest Soil Testing					License number:	L2	2896	
Inspector signatur		Brian .	Hu	mpal Afra	_//L	Phone number:	65	51-492-7550
Necessary or	Necessary or Locally Required Attachments							
🛛 Soil boring lo	ogs	🛛 Sys	em/	As-built drawing	J	Forms per local ordinan	ce	
🛛 Other inform	ation (lis	st): Cover L	etter	, Disclaimer, Lic	ense			
www.pca.state.mn.	us •	651-296-6300	•	800-657-3864	•	TTY 651-282-5332 or 800-657-3864	•	Available in alternative formats

## Property address: 8633 34th St N, Lake Elmo, MN (Building 4 (Main)) Inspector initials/Date: 12/4/2018

#### Impact on Public Health - Compliance component #1 of 5 1.

Compliance criteria:		Verification method(s):
System discharge sewage to the ground surface.	🗌 Yes 🛛 No	<ul> <li>Searched for surface outlet</li> <li>Searched for seeping in yard/backup in home</li> </ul>
System discharge sewage to drain tile or surface waters.	🗌 Yes 🖾 No	<ul> <li>Excessive ponding in soil system/D-boxes</li> <li>Homeowner testimony (See Comments/Explanation)</li> </ul>
System cause sewage backup into dwelling or establishment.	🗌 Yes 🖾 No	<ul> <li>Black soil" above soil dispersal system</li> <li>System requires "emergency" pumping</li> <li>Performed dye test</li> </ul>
Any "yes" answer above indicates the system is an Imminent Threat to Public Health and Safety.		<ul> <li>Unable to verify (See Comments/Explanation)</li> <li>Other methods not listed (See Comments/Explanation)</li> </ul>

#### Comments/Explanation:

Please reference the attach cover letter. This report is not valid without the cover letter.

#### 2. Tank Integrity – Compliance component #2 of 5

Compliance criteria:		Verification method(s):			
System consists of a seepage pit, cesspool, drywell, or leaching pit.	🗌 Yes 🛛 No	Probed tank(s) bottom			
Seepage pits meeting 7080.2550 may be		<ul> <li>Examined construction records</li> <li>Examined Tank Integrity Form (Attach)</li> </ul>			
compliant if allowed in local ordinance.		<ul> <li>Observed liquid level below operating depth</li> </ul>			
Sewage tank(s) leak below their designed operating depth.	🗌 Yes 🛛 No	Examined empty (pumped) tanks(s)			
If yes, which sewage tank(s) leaks:		Probed outside tank(s) for "black soil"			
Any "yes" answer above indic system is Failing to Protect G		<ul> <li>Unable to verify (See Comments/Explanation)</li> <li>Other methods not listed (See Comments/Explanation)</li> </ul>			

Comments/Explanation:

Please reference the attach cover letter. This report is not valid without the cover letter.

#### 3. Other Compliance Conditions – Compliance component #3 of 5

a.	Maintenance hole covers are damaged, cracked, unsecured, or appear to structurally unsound	. 🗌 Yes*	🖾 No	Unknown

b. Other issues (electrical hazards, etc.) to immediately and adversely impact public health or safety. 🗌 Yes\* 🛛 No 📋 Unknown \*System is an imminent threat to public health and safety

Explain:

System is non-protective of ground water for other conditions as determined by inspector Yes\* 🛛 No C. \*System is failing to protect groundwater

Explain:

#### **4. Soil Separation** – Compliance component #4 of 5

Date of installation: Unknown/2006	🛛 Unknown	Verification method(s):	
Shoreland/Wellhead protection/Food Beverage Lodging?	🗌 Yes 🖾 No	Soil observation does not expire. Pro observations by two independent pa	
Compliance criteria:		unless site conditions have been alte	
For systems built prior to April 1, 1996, and not located in Shoreland or Wellhead	🗌 Yes 🗌 No	requirements differ.	ttach horing logs)
Protection Area or not serving a food,		Two previous verifications ( <i>Attac</i>	
beverage or lodging establishment:		Not applicable (Holding tank(s), no	drainfield)
Drainfield has at least a two-foot vertical separation distance from periodically		Unable to verify (See Comments/E	
saturated soil or bedrock.		Other (See Comments/Explanation)	
Non-performance systems built April 1, 1996, or later or for non-performance systems located in Shoreland or Wellhead Protection Areas or serving a food, beverage, or lodging establishment:	🛛 Yes 🗌 No	Comments/Explanation:	
Drainfield has a three-foot vertical separation distance from periodically saturated soil or bedrock.*			
"Experimental", "Other", or "Performance"	🗌 Yes 🔲 No	Indicate depths of elevations	
systems built under pre-2008 Rules; Type IV or V systems built under 2008 Rules (7080. 2350 or 7080.2400 (Advanced Inspector License required)		A. Bottom of distribution media	See Attached Boring Log(s
Drainfield meets the designed vertical		B. Periodically saturated soil/bedrock	
separation distance from periodically saturated soil or bedrock.		C. System separation	
		D. Required compliance separation*	
Any "no" answer above indicates t Failing to Protect Groundwater.	he system is	*May be reduced up to 15 percent if Ordinance.	allowed by Loca
Operating Permit and Nitrogen B			
s the system operated under an Operating Per	-	component #5 of 5 🛛 🕅 Not appl	icable
is the system required to employ a Nitrogen BM		No If "yes", B below is required	
BMP=Best Management Practice(s) specif		<b>, , , , , , , , , ,</b>	
If the answer to both questions is "no",	this section does i	not need to be completed.	
Compliance criteria			
a. Operating Permit number:		☐ Yes ☐ No	
Have the Operating Permit requirements			
b. Is the required nitrogen BMP in place and	properly functioning?	🗌 Yes 🔲 No	

Any "no" answer indicates Noncompliance.

**Upgrade Requirements** (*Minn. Stat.* § 115.55) *An imminent threat to public health and safety* (*ITPHS*) *must be upgraded, replaced, or its use discontinued within ten months of receipt of this notice or within a shorter period if required by local ordinance. If the system is failing to protect ground water, the system must be upgraded, replaced, or its use discontinued within the time required by local ordinance. If an existing system is not failing as defined in law, and has at least two feet of design soil separation, then the system need not be upgraded, replaced, or its use discontinued, notwithstanding any local ordinance that is more strict. This provision does not apply to systems in shoreland areas, Wellhead Protection Areas, or those used in connection with food, beverage, and lodging establishments as defined in law.* 

# Log Of Soil Borings

Leastion of Projects 8622 24th St N. Lake Elma, MN EE042 (Duilding 4 (Main))							
	Location of Project: 8633 34th St N, Lake Elmo, MN 55042 (Building Borings Made By: Inspect Minnesota Date:						
DC		Hand/Bucket	, ,				
			Classi	fication System:			
	Boring Number:	1	Surface	Boring Number:	3		
Surface Elevation o Boring		Same ground surface as last drainfield trench		f Same ground surface as seepag bed			
Depth In Inches	<u>Soils E</u>	ncountered	Depth In Inches	<u>Soils Er</u>	ncountered		
0-30 30-49 49-62 62-70	10YR 3 10YR 4 10YR 3/4 Mediu	/2 Silt Loam /4 Silt Loam /4 Silt Loam um Sand With Gravel ock Fragments	0-15 15-36 36-52	7.5YR 3/4 Mediu ≈15% Ro 7.5YR 4/4 Sand ≈15% Ro	'3 Sandy Loam Im Sand With Gravel ck Fragments y Loam With Gravel ck Fragments sal At 52"		
70" [	Depth To End Of B	oring Or Redox	52" I	Depth To End Of B	oring Or Redox		
	Elevation Of Borin	g Relative To System		Elevation Of Boring	g Relative To System		
		Of Distribution Media			Of Distribution Media		
≥35" (	Of Separation		≥31" (	Of Separation			
<b></b>	End Of Basing At.	70"		End Of Baring At	52"		
	End Of Boring At: Redox Present At:			End Of Boring At:			
		None		Redox Present At:	None		
Standing	Water Present At:	eter Present At: None Standing Water Present At: None					

Bottom Of Distribution Medium At: 35 Inches Bottom Of Distribution Medium At: 21 Inches



# **DISCLAIMER**

#### Brian L. Humpal, Inc. dba. Inspect Minnesota, Midwest Soil Testing

#### Relative to Subsurface Sewage Treatment System (SSTS) Compliance Inspections

- 1. This inspection/report is being performed for only the seller/owner of the property on which the SSTS is located. In such case that another party is paying for the inspection, the contract is between only said party and Brian L. Humpal, Inc.; there is no contract between Brian L. Humpal, Inc. and any other party unless otherwise noted.
- 3. Brian L. Humpal, Inc. has not been retained to warranty, guarantee, or certify the proper functioning of the SSTS for any period of time beyond the date of inspection or into the future. Because of the numerous factors (usage, maintenance, soil characteristics, previous failures, etc.) which may affect the proper operation of an SSTS, as well as the inability of Brian L. Humpal, Inc. to supervise or monitor the use or maintenance of the SSTS, the report shall not be construed as a warranty by Brian L. Humpal, Inc. that the SSTS will function properly for any particular party for any period of time.
- 4. Brian L. Humpal, Inc. is unable to verify the frequency and/or, quality of prior or future maintenance of the SSTS. Maintenance of the tank(s) must be performed through the tanks maintenance hole. The removal of solids from any location other than the maintenance hole is not a compliant method of maintenance. It is strongly recommended that maintenance covers be made accessible to the ground surface to facilitate proper maintenance.
- 5. Minimum Compliance Inspection requirements relative to this inspection and this report include <u>only</u> verification that the SSTS has tank(s) (septic tanks, lift tanks, dosing tanks, stilling tanks, etc.) which are watertight below the designed operating depth, the required separation between the bottom of the subsurface soil distribution medium and seasonally saturated soils, no back-ups of sewage into the dwelling, no discharge of sewage/effluent to the ground surface or surface waters, and no imminent safety hazards. Brian L. Humpal, Inc. does not inspect plumbing or pumps prior to the first SSTS component as these are plumbing components. The performance of exterior pumps and associated components are not inspected as they are considered to be maintenance items. Additionally, no indications relative to compliance with electrical code requirements have been made. It is recommended that any other applicable plumbing, electrical, housing, etc. inspections be performed by a qualified inspection business. Sewage back-up verification is limited to observing the floor drain area and/or the information supplied by the last occupants of the building prior to inspection. Brian L. Humpal, Inc. cannot guarantee that the information given to them by the last occupants of the building prior to inspection relative to back-ups is accurate.
- 4. Certification of this SSTS does not warranty future use beyond the date of the inspection. Any SSTS, old or new, can become hydraulically overloaded or discharge sewage/effluent to the ground surface as a result of more people moving into the house than were previously occupying the house, improper maintenance, heavy usage, leaking plumbing fixtures, groundwater infiltration, tree roots, freezing conditions, surface drainage problems, poor initial design, poor construction practices, or unsuitable materials used in constructing the system; the system can also simply stop working because of its age. An SSTS that has been properly designed and installed, properly maintained, and used in the manner for which the system was designed can be expected to provide service for twenty to twenty-five years on average. Some parts of the SSTS such as alarms, switches, pumps, filters, etc. will most likely have to be repaired or replaced over the lifetime of the system.
- 5. A Compliance Inspection is not meant to be a test or inspection for longevity of the system; a Compliance Inspection is strictly for the purpose of determining if the SSTS is protective of public health and safety, as well as the groundwater at the date and time the inspection was performed. This inspection is not intended to determine if the SSTS was originally designed or installed to past or present MPCA or other Local Government Unit code requirements. This inspection is not intended to determine if the SSTS was designed and/or installed to support the anticipated flow from the building as the use of the building may have changed since the design and construction of the SSTS due to the addition of bedrooms, occupants, etc. In addition, this inspection is not intended to determine the quality of the original SSTS design, the quality of the construction practices used while installing the SSTS, or the quality of the materials used in constructing the SSTS.
- 6. Brian L. Humpal, Inc. cannot guarantee the performance of SSTS products/components such as: gravelless pipe, chamber trenches, effluent filters, tanks, sewage pre-treatment components, piping, etc. Products such as gravelless pipe are no longer approved for installation in the State of Minnesota and may have a significantly reduced performance and/or life expectancy.
- 7. WINTER WORK: By accepting this report, it is understood that inspections conducted during winter months (approximately November 1<sup>st</sup> through April 1<sup>st</sup>) are more difficult to perform because of possible snow cover and/or ground frost. SSTS components such as tanks, maintenance covers, tank inspection pipes, subsurface distribution medium inspection pipes, and soil treatment areas are more difficult or impossible to locate due to snow cover and/or ground frost. In addition, soil borings are more difficult to perform due to snow cover and/or ground frost. Brian L. Humpal, Inc. will attempt to use the same level of standards when performing work during winter periods as when performing work during non-winter periods. However, the recipient of this report understands that because of the aforementioned considerations, the same level of standards may not be possible.
- 8. By accepting this report, the client understands that Brian L. Humpal, Inc. will not be responsible for any monetary damages exceeding the fee for the services provided.

# Subsurface Sewage Treatment Systems Non-transferable Business License

Inspect Minnesota, Midwest Soil Testing

License # L2896 License Expires: 12/22/2019

Issued: 11/20/2018

**Specialty Area(s):** 

Installer Maintainer Service Provider Advanced Designer Advanced Inspector

# **Designated Certified Individual(s):**

Cert #	Name	<b>Certification Expires:</b>
C9633	Anthony P Scully	3/5/2020
•	Installer, Designer (Apprentice)	
C5342	Brian L Humpal	10/15/2023
	Installer, Maintainer, Serv Prov, Adv	Designer, Adv Inspector
C9852	Christopher R Uebe	3/4/2021
	Designer, Inspector	

# MINNESOTA POLLUTION CONTROL AGENCY

520 Lafayette Road North St. Paul, Minnesota 55155-4194

Nich Haig

Nick Haig, Supervisor Certification and Training Unit